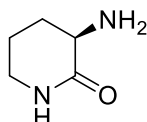


D-Ornithine lactam

Code No.: **BIA-O2217**

Pack sizes: **1 mg, 5 mg**



Synonyms : (3R)-3-Amino-2-piperidinone

Specifications

CAS #	: 88763-76-2
Molecular Formula	: C₅H₁₀N₂O
Molecular Weight	: 114.15
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Ornithine lactam is an endogenous metabolite, which when found in excess in plasma is a measure of a rare autosomal recessive disorder of the urea cycle. Ornithine lactam is used in cosmetics as a skin whitening agent and moisturiser. Ornithine lactam is a biosynthetic precursor of sinefungin. There are no publications on the biological activity of D-ornithine lactam.

References

1. The hyperornithinemia–hyperammonemia–homocitrullinuria syndrome. Martinelli D. et al. J Rare Dis. 2015, 10, 29.
2. Cosmetic and topical preparations containing ornithine lactam. Suetsugu M. and Yoshida Y. Jpn. Kokai Tokkyo Koho 2000, JP 2000086481 A 20000328.
3. Identification of ornithine-lactam converted from arginine in Streptomyces incarnatus NRRL8089. Fukuda K. et al. Okayama Daigaku Nogakubu Gakujutsu Hokoku 2010, 99, 1.